Circle Court Ground Water
TXN000604965

Pre-CERCLIS Screening Checklist

Willow Park Municipal System
516 Ranch House Road
Willow Park, Parker County, Texas
TXD PENDING

REGION VI

Prepared in cooperation with the
U.S. Environmental Protection Agency

April 2007

PreCERCLIS SCREENING CHECKLIST

Willow Park Municipal System
PWS ID# 1840027
Willow Park, Parker County, Texas

SIGNATURE PAGE

for Marshall Cedilote — 4/30/07

Xiaohong Wang
Texas Commission on Environmental Quality
Site Investigation Manager

Date

Marshall Cedilote — 4/30/07

Marshall Cedilote
Texas Commission on Environmental Quality
PA/SI Grant Manager

Date

For Melissa Cordell — 5/4/07

Wesley G. Newberry
Texas Commission on Environmental Quality
PA/SI Program Manager

Date

Jon Rinehart — 5-15-07

Jon Rinehart
U.S. Environmental Protection Agency

Date

PRE-CERCLIS FIELD SCREENING CHECKLIST

1.0 GENERAL SITE INFORMATION

SITE NAME: Willow Park Municipal System			
ADDRESS:516 Ranch House Road			
CITY: Willow Park	ZIP: 76087	COUNTY: Parker	CONG. DIST: 12
PHYSICAL LOCATION (directions to site): 0.3 mile south of I-20 on 117 Circle Ct. Road			
TYPE OF OWNERSHIP __X__ Municipal __ Private __ Federal __ Indian Nation __ State __ County Other _____			
SITE STATUS: __X__ Active __ Inactive __ not specified) __11__ # of employees (if active)		YEARS OF OPERATION 1967 to present	
EPA ID # _____ State SWR # _____ Other # PWS ID # 1840027			
Site Owner (if available):City of Willow Park			
Site Operator (if available): Mr. Joe Hines, Director of Public Works (817-205-8537)			

Description of Willow Park PWS#1840027

Based on the information provided in the TCEQ Public Water System database, the Willow Park Municipal System PWS#1840027 is owned by the City of Willow Park. The water system has 1115 connections and supplies approximately 3114 people. There are five pump stations and eleven points of entry in the system as shown in Figure 2. The five pump stations in the system are Indian Camp Pump Station (POE001) located at 3500 Indian Camp, Fox Hunt Pump Station (POE009) located at 1109 Fox Hunt Tail, Willow Wood Pump Station (POE002) located 3323 Forest Circle, Willow Springs Oaks Pump Stations (POE011) located at 117 Circle Ct., and Willow Springs Pump Station (POE010) located at 4820 Misty Meadow. Currently the Willow Wood Pump Station is inactive. The Indian Camp Pump Station pumps water from seven wells. They are Well #1, Well #2, Well #4,Well #5,Well #14, Well #15, and Well #8, respectively. Currently, Well #8 is inactive. The Fox Hunt Pump Station pumps water from Well #16T and Well #16B. The Willow Wood Pump Station pumps water from Well #12 and Well #13. The Willow Springs Oaks Pump Station pumps water from Well #19 and Well #20. Currently Well #19 is inactive. The Willow Springs Pump Station pumps water from Well #17 and Well #18. The rest points of entry pump the water from a single well.

For the Willow Park Municipal System, well water is first pumped to the surface where it is chlorinated with a hypochlorination solution and piped to the above ground storage tanks. The water is then piped to the 250K elevated tank for distribution. Because Tricholorethene (TCE) was detected in the Point of Entry 011 (POE011), located at 117 Circle Ct., on March 23, 2006, granular activated carbon (GAC) filters were installed at the Willow Spring Oaks Pump Station on June 19, 2006. Currently, the water pumped from the Well #20 at the Willow Spring Oaks Pump Station first passes through the filter before the water is sent to the above groundwater tank for distribution.

Comments

Summary of Enforcement Action for the site:

Based on the information available, no enforcement action for the Willow Park Municipal System PWS#1840027 has been initiated.

Based on the file available, the latest Compliance Evaluation Investigation for the site conducted by TCEQ was on March 5, 2002. Based on the Compliance Investigation Report dated April 8, 2002, there are several violations such as failure to prepare and maintain a map of the distribution system, failure to maintain the public water system's operating records organized, failure to initiate a maintenance program to ensure the reliability, and failure to inspect both the ground and elevated storage tanks at least annually for the system. Based on the TCEQ's letter dated on November 12, 2002, no response to the Notice of Violation for the PWS # 1840027 dated April 8, 2002 from City of Willow Park was received by TCEQ.

Water Sample Analysis Results for Willow Park Municipal System PWS# 1840027

Based on the water sample analysis data available, Dichloromethane was detected once at POE 008 on May 30, 1996 below its Maximum Contaminant Level (MCL). Trichloroethene (TCE) was detected once at POE 010 on October 29, 2001 below its MCL. The TCE concentration at POE 011 was above its MCL (5ppb) on March 23, 2006. The historical sampling analysis results of organic compounds for the Willow Park Municipal System PWS# 1840027 are listed in Table 1. The TCE concentration at Well #20 (Raw water sample) was 33.9 ppb on May 4, 2006. Based on the information provided by Mr. Hines, the well was taken out of service on April 1, 2006. GAC filters were installed at the Willow Spring Oaks Pump Station on June 19, 2006. Currently, water pumped from Well #20 first passes through the filter before being piped to the above groundwater tank for distribution. Currently, water samples are analyzed before and after the filter once a month. The TCE concentrations after filter at POE 011 has been below its MCL. The detail water sample results at POE 011 are listed in Table 2. The locations of POE 010 and POE 011 are shown in Figure 1.

Table 1 Lists of Sampling Analysis Results for Organic Compound in PWS#1840027

POE number	Contaminants	collected date	Concentration (ppb)	Above MCL
POE 001	Bromodichloromethane	02/09/1999	2.30	
	Bromoform		4.7	
	Chloroform		0.7	
	Dibromochloromethane		6.1	
	Bromodichloromethane	03/08/1999	1.2	
	Bromoform		3.2	
	Dibromochloromethane		4.1	
	Bromodichloromethane	11/07/2000	1.4	
	Bromoform		6.9	
	Dibromochloromethane		4.9	
	Bromodichloromethane	03/19/2002	1.7	
	Bromoform		3.3	
	Dibromochloromethane		3.4	
POE002	Bromodichloromethane	03/08/1999	1.2	
	Bromoform		3.2	
	Dibromochloromethane		3.5	
	Bromodichloromethane	11/07/2000	3.7	
	Bromoform		20	
	Chloroform		1.0	
	Dibromochloromethane		11	
POE004	2-Butanone	03/25/1996	74	
	Tetrahydrofuran		41.0	
	Chloroform	11/07/2000	1.1	
POE006	Chloroform	11/07/2000	0.5	
POE008	Dichloromethane	05/30/1996	2.7	
	Bromodichloromethane	03/19/2002	3.2	
	Bromoform		0.6	
	Chloroform		3.6	
	Dibromochloromethane		2.2	
POE009	Dibromochloromethane	11/11/2004	0.6	
POE010	Chloroform	10/29/2001	0.5	

	Trichloroethene		2.4	
	2-Butanone(MEK)	05/22/2002	37	
	Bromodichloromethane		9.7	
	Bromoform		0.9	
	Carbon Tetrachloride		1.0	
	Chloroform		19	
	Dibromochloromethane		5.0	
	Tetrahydrofuran		12	
	2-Furancarboxaldehyde	09/18/2002	1.1	
	Bromodichloromethane		10	
	Bromoform		0.7	
	Chloroform		18	
	Dibromochloromethane		5.4	
	Bromodichloromethane	11/19/2002	1.4	
	Chloroform		1.0	
	Dibromochloromethane		1.2	
	Bromodichloromethane	03/25/2003	1.1	
	Chloroform		0.9	
	Dibromochloromethane		0.8	
	Chloroform	03/15/2005	1.1	
	Dibromochloromethane		1.2	
	Dichlorobromomethane		1.4	
	Bromodichloromethane		1.38	
	Dibromochloromethane		1.48	
POE011	Chloroform	10/29/2001	0.8	
	Chloroform	03/19/2002	0.7	
	Dibromochloromethane		0.6	
	Trichloroethene		1.9	
	Bromodichloromethane	09/18/2002	1.3	
	Chloroform		2.6	
	Dibromochloromethane		0.6	
	Trichloroethene		1.8	
	Bromodichloromethane	11/19/2002	1.8	

	Chloroform		2.1	
	Dibromochloromethane		1.2	
	Trichloroethene		1.9	
	Bromodichloromethane	03/25/2003	1.7	
	Chloroform		1.3	
	Dibromochloromethane		1.3	
	Trichloroethene		1.3	
	Bromoform	11/11/2004	1.5	
	Chloroform		1.1	
	Dibromochloromethane		3.1	
	Dichlorobromomethane		2.1	
	Trichloroethene		3.4	
	Bromoform	03/15/2005	1.2	
	Chloroform		0.8	
	Dibromochloromethane		2.4	
	Dichlorobromomethane		1.6	
	Trichloroethene		2.8	
	Bromodichloromethane	03/23/2006	2.95	
	Bromoform		2.36	
	Chloroform		1.68	
	Dibromochloromethane		4.46	
	Trichloroethene		6.03	Y
	Acetone	05/04/2006	7.84	
Well#20 at POE011	Trichloroethene	03/25/2003	2.0	Y
Well#20 at POE 011	Trichloroethene	05/04/2006	33.9	Y

Table 2 TCE Concentration in Water Sample at POE 011 Before and After Filter

Collected date	TCE concentration before the filter (ppb)	Above MCL	TCE concentration after the filter (ppb)	Above MCL or PCL
06/20/2006(first sample using filters)	6.8	Y	<2.0	N
06/26/2006	6.1	Y	<2.0	N
07/06/2006	5.2	Y	<2.0	N
08/11/2006	2.2	N	<2.0	N
09/11/2006	3.9	N	<2.0	N
10/05/2006	5.4	Y	<2.0	N
11/16/2006	5.7	Y	<2.0	N
12/20/2006	5.4	Y	<2.0	N
01/26/2007	4.7	N	<2.0	N
02/6/2007	3.5	N	<2.0	N

2.0 SITE SCREENING INFORMATION

Date:	03/06/07	Time:	10:00am
TCEQ Personnel:	Mr. Dan Long, Field Investigator of TCEQ Region 4 and Ms. Xiaohong Wang, Project Manager of TCEQ Remediation Division, State Lead Section Team III		

The Pre-CERCLIS site inspection was conducted on March 6, 2007 to determine current site status, identify possible sources of hazardous substances, identify potential receptor targets, and determine off-site migratory pathways. In addition, private wells located within 0.25 mile from the site were searched and an interview was conducted with Mr. Joe Hines, Public Works Director of City of Willow Park.

Based on the information provided in the TCEQ public drinking water quality database and available file review, TCE was detected at POE 010 on October 29, 2001 below its MCL TCE was detected at POE 011 on March 19, 2002 below its MCL. On March 23, 2006, the concentration of TCE at POE 011 exceeded its MCL. The well was taken out of service on April 1, 2006. GAC filters were installed at the Willow Spring Oaks Pump Station (POE011) on June 19, 2006. Currently, water pumped from the Well #20 first passes through the filter before the water is piped to the above groundwater tank for distribution. Currently, water samples are analyzed before and after the filter once a month. Based on the water sample results, the TCE concentration at POE 011 after filter is less than 2.0 ppb (below its MCL of 5.0 ppb). The concentrations of TCE in the water sample before the filter at POE 011 ranges between 2.2 and 5.7.

Based on the information provide in the Anneta and Lake Weatherford 7.5 minute topographic maps, Lake Weatherford is located within 2 mile from the site. The Willow Park Municipal System is located at Clear Fork Trinity River Basin and Stream Segment for the site is 0831. Based on the information provided by Mr. Dan Long, TCEQ Region 4 field investigator, there are no drinking water intakes, fisheries, and sensitive environments along the surface water 15 mile target distance limit. The off-site runoff is from northwest to southeast. The surface soil on site is Denton Clay. The drainage direction for the area is southeast. Based on the site inspection, the POE is located in a residential area and the pump station is fenced and locked.

3.0 RANK (Seriousness of Situation)

☐ 1 **Low Potential Hazard** - No waste source(s) identified and/or limited or no targets identified.

☐ 2 **Low to Moderate Potential Hazard** - May have a waste source(s) and/or limited or no targets identified.

☐ 3 **Moderate Potential Hazard** - Potential waste source(s), potential targets are present in the area but no release is suspected.

☒ 4 **Moderate to High Potential Hazard** - Potential waste source(s) identified, a release may be suspected and potential targets are present in the area.

☐ 5 **High Potential Hazard** - Potential waste source(s) identified, a release is strongly suspected or observed, targets are present in the area and may be impacted. Sites in this category are believed to require immediate attention by EPA.

☐ 6 **Other** - Sites that for various reasons, do not fit into one of the above scoring criteria. An explanation is attached.

4.0 HAZARD DESCRIPTION (e.g. details on sources, contaminants, historical discharges, waste management and chemical use, threat to public and/or environment)

Based on the site inspection conducted on March 6, 2007, there are no hazardous substances were found on site. Based on the information provided in the TCEQ Public Drinking Water Quality Database and available file review, chemicals such as bromoform, bromodichloromethane, chloroform, dibromochloromethane, 2-Butanone, tetrahydrofuran, dichloromethane, and trichloroethene had been detected in the Willow Park Municipal Water System. TCE was first detected at POE 010 on October 29, 2001 and the TCE concentration below its MCL of 5.0 ppb. TCE was first detected at POE 011 on March 19, 2002 below its MCL. On March 23, 2006, TCE concentration at POE 011 exceeded its MCL. The well depth at POE 011 is 240 feet.

On June 1, 2006, TCEQ collected water samples from nine private wells located within 0.25 miles of POE 01. TCE was detected in five wells. All private wells sampled by TCEQ are shown in the Figure 5. The TCE concentration (12.2 ppb) in Mr. Kelly Barnett's well located at 3816 East I-20 exceeded its MCL of 5ppb. The well depth is approximately 200 feet. Based on the information provided by Mr. Barnett, the well is used to wash the airplanes and toilets and not used as drinking water. TCE was detected at Mr. Guy Keller's well at 2.45 ppb. The well depth is 300 feet and water from the well is only used for irrigation since city water is connected to Mr. Keller's house. TCE was detected at Mr. Perry Davis's well at 1.54 ppb. The well depth is between 240 feet and 300 feet. They drink the water from the well. TCE was detected at Mr. George Murphy's well at 2.59 ppb. The well depth is approximately 250 feet. They drink the water from the well as well as bottled water. TCE was also detected at Mr. Sharon Lasater's well at 4.67 ppb. The well depth information is not available. They drink the water from the well and use the water for all other purposes. There is no TCE detection in Mr. Sherman's well, Mr. Barnett's Well #1, Mr. Liepert's well, and Mr. Hall's well. There is no well information available. Mr.Barnett's well#1 is used as drinking water and irrigation source. The well depth is approximately 200 feet. Mr. Hall drinks water from his well. The well depth is approximately 201 feet. Mr. Liepert also use the well as his drinking water source. The well depth is approximately 240 feet. All water sampling results were sent to well owners on July 10, 2006.

5.0 SITE FEATURES

Potential Waste Sources:

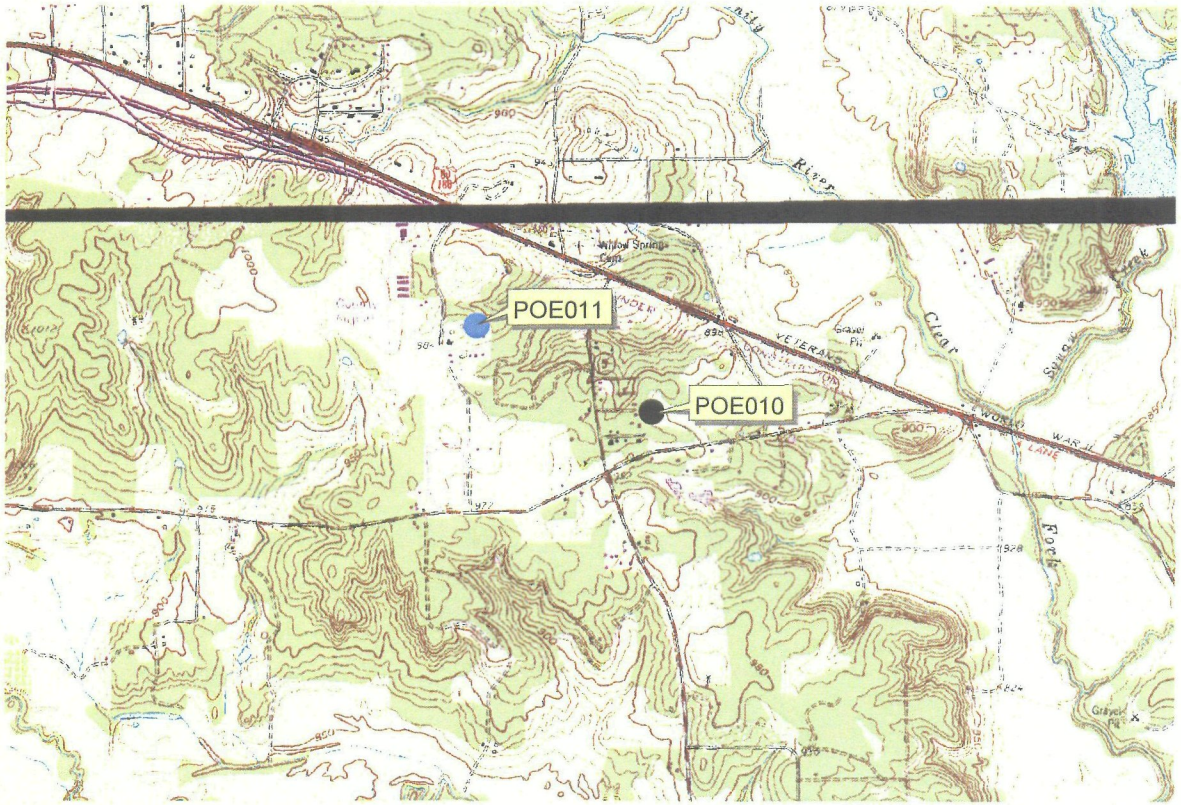
[ ]	Ponds, Lagoons, Surface Impoundments	[ ]	Drums
[ ]	Contaminated Soil	[ ]	Pits
[ ]	Transformers	[ ]	Landfills
[ ]	Waste Piles	[ ]	No Sources Identified
[X]	Storage Tanks (above & below)	[ ]	Other

Describe sources and releases (e.g. #drums, size of impoundment, leaking drums, ruptured tank, containment)
Based on the site inspection conducted on March 6, 2007, the POE 011 of Willow Park Municipal System is located at residential area. No potential sources of hazardous substances could be located in the vicinity of POE 011. Because the TCE concentration (12.2 ppb) in Barnett #2 well exceeded its MCL, the well was inspected also on March 6, 2007. Based on the site inspection, the well is located below ground in between two aboveground storage tanks at Parker County Airport. It was also found that there are two underground tanks located next to the well as shown in Figure 3. Mr. Barnett cannot provide much information about the well and historical use for above and underground tanks located next to the well. Based on the information available in TCEQ PST program, both underground storage tanks had been out of service since approximately 1998. Based on the latest TCEQ letter dated July 27, 2001, TCEQ required Parker County Airport to either permanently remove both underground tanks from service or require for variance in order to return the UST system to operation. No response from Parker County Airport is located in the file. Based on the site inspection for the well on March 6, 2007, by opening the well cover, the walls of the pit were wet below the high water mark with oil residue as shown in Picture 11. The drain was full of water. There is some water on the bottom of the pit. It appeared that the water backflowed up through drain and filled pit and submerged unsealed well head. Since TCE (12.2 ppb) was detected in the well next to the underground storage tanks and there is no information about the historical use of the underground storage tanks available, further sampling investigation is needed. Parker County Airport is located within 0.5 mile from the POE 011. There are no dry cleaners located within one mile of the site.

6.0 TARGETS

Describe targets and proximity to wastes
Based on the information provided by the TCEQ Water System Data Sheet, the Willow Park Municipal System currently has 1115 connections and supplies 3114 people. The wells are located in a at residential area. No daycares or schools are located within 200 feet of POE. The nearest school, Trinity Christian Academy, is located within 0.5 mile from the POE 011. Private water wells used for drinking water had been searched within 0.25 mile of POE 011. TCE was detected in five wells. All private wells sampled by TCEQ are shown in the Figure 5. The TCE concentration (12.2 ppb) in Mr. Kelly Barnett's well located at 3816 East I-20 exceeded its TRRP PCL (5ppb). The well depth is approximately 200 feet. Based on the information provided by Mr. Barnett, the well is used to wash the airplanes and toilets and not used as drinking water. TCE was detectd at Mr. Guy Keller's well at 2.45 ppb. The well depth is 300 feet and water from the well is only used for irrigation since city water is connected to Mr. Keller's house. TCE was detected at Mr. Perry Davis's well at 1.54 ppb. The well depth is between 240 feet and 300 feet. They drink the water from the well. TCE was detected at Mr. George Murphy's well at 2.59 ppb. The well depth is approximately 250 feet. They drink the water from the well as well as bottled water. TCE was also detected at Mr. Sharon Lasater's well at 4.67 ppb. The well depth information is not available. They drink the water from the well and use the water for all other purposes. There is no TCE detection in Mr. Sherman's well, Mr. Barnett's Well #1, Mr. Liepert's well, and Mr. Hall's well. There is no well information available. Mr.Barnett's well#1 is used as drinking water and irrigation source. The well depth is approximately 200 feet. Mr. Hall drinks water from his well. The well depth is approximately 201 feet. Mr. Liepert also use the well as his drinking water source. The well depth is approximately 240 feet. All water sampling results were sent to well owners on July 10, 2006. Because there is no historical information available for the underground storage tanks located next to the well and currently the tanks are out of the service, further investigation for the area is needed.

7.0 FIGURES



TCEQ

Willow Park Municipal System
516 Ranch House Road
Willow Park, TX 76087

Parker County

N

1 0 1 2 Miles

Source
The base data set used is the Anneta and Lake Weatherford Texas, 1:24,000 Digital Raster Graphic(DRG), which is a scanned image of a U. S. Geological Survey topographic map.
UTM NAD 27 Zone 14

Figure 1
TCE Detected at the POEs of Willow Park Municipal System

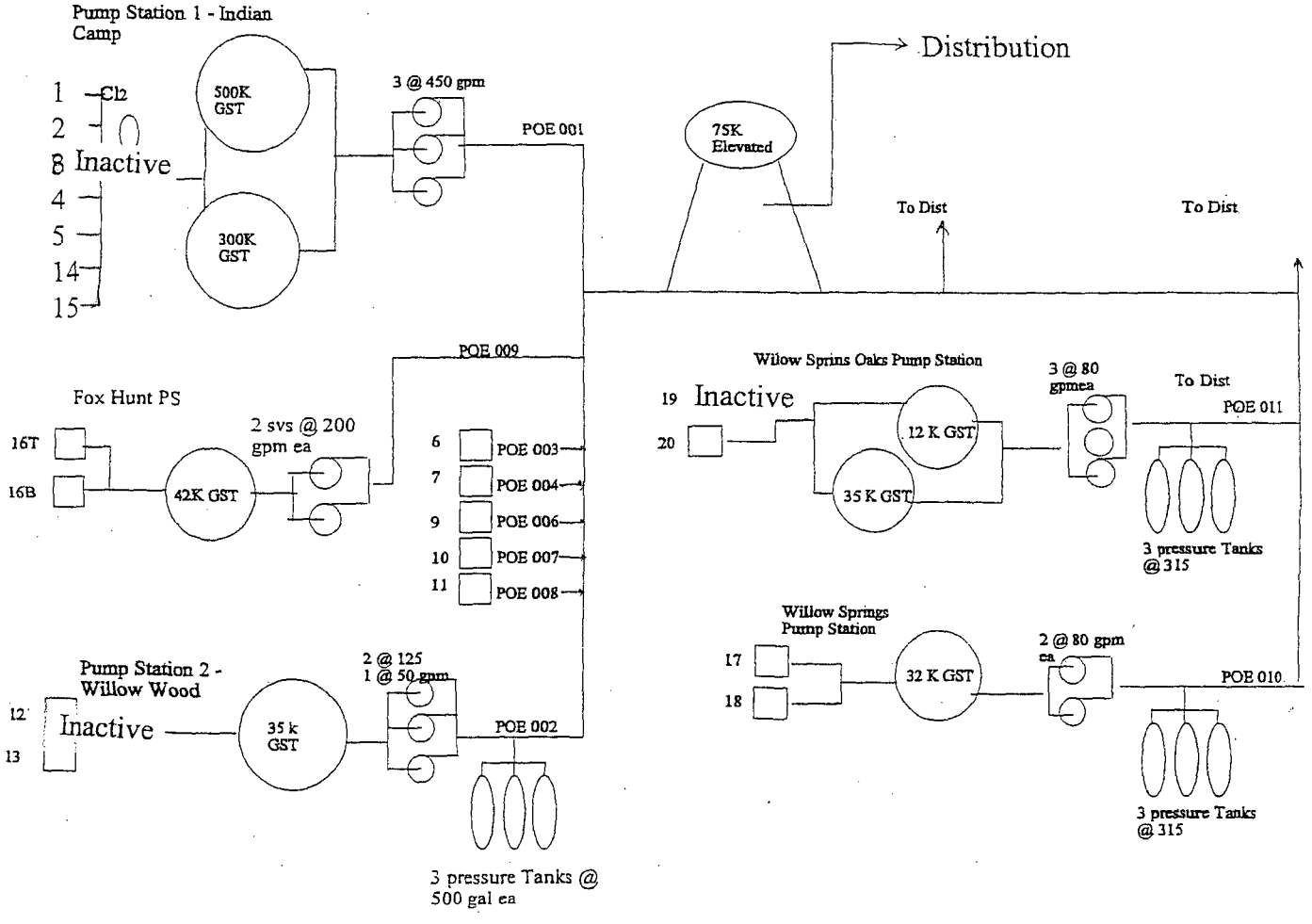


Figure 2 Willow Park Municipal Water System #1840027

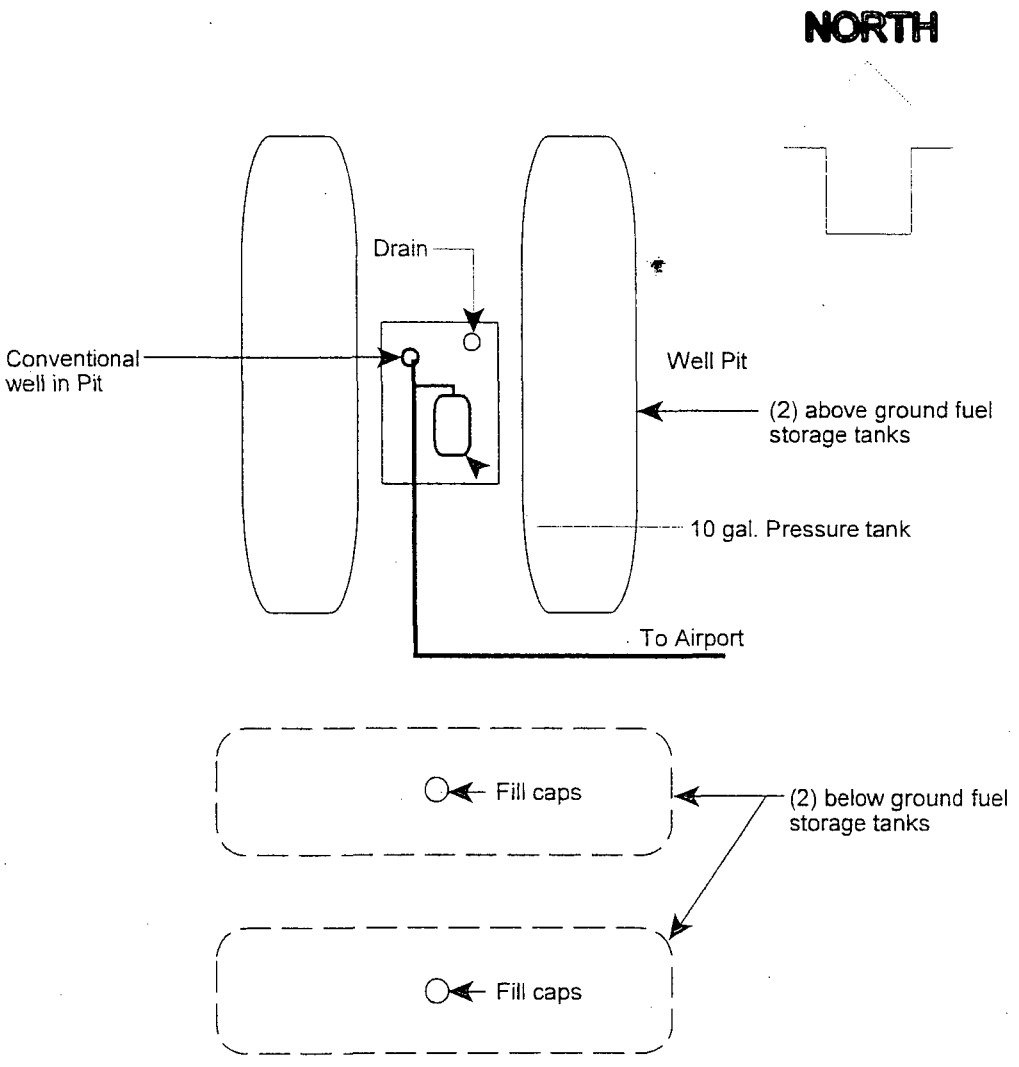


Figure 3 The Position of Well, Above and Underground Tanks on the Parker County Airport

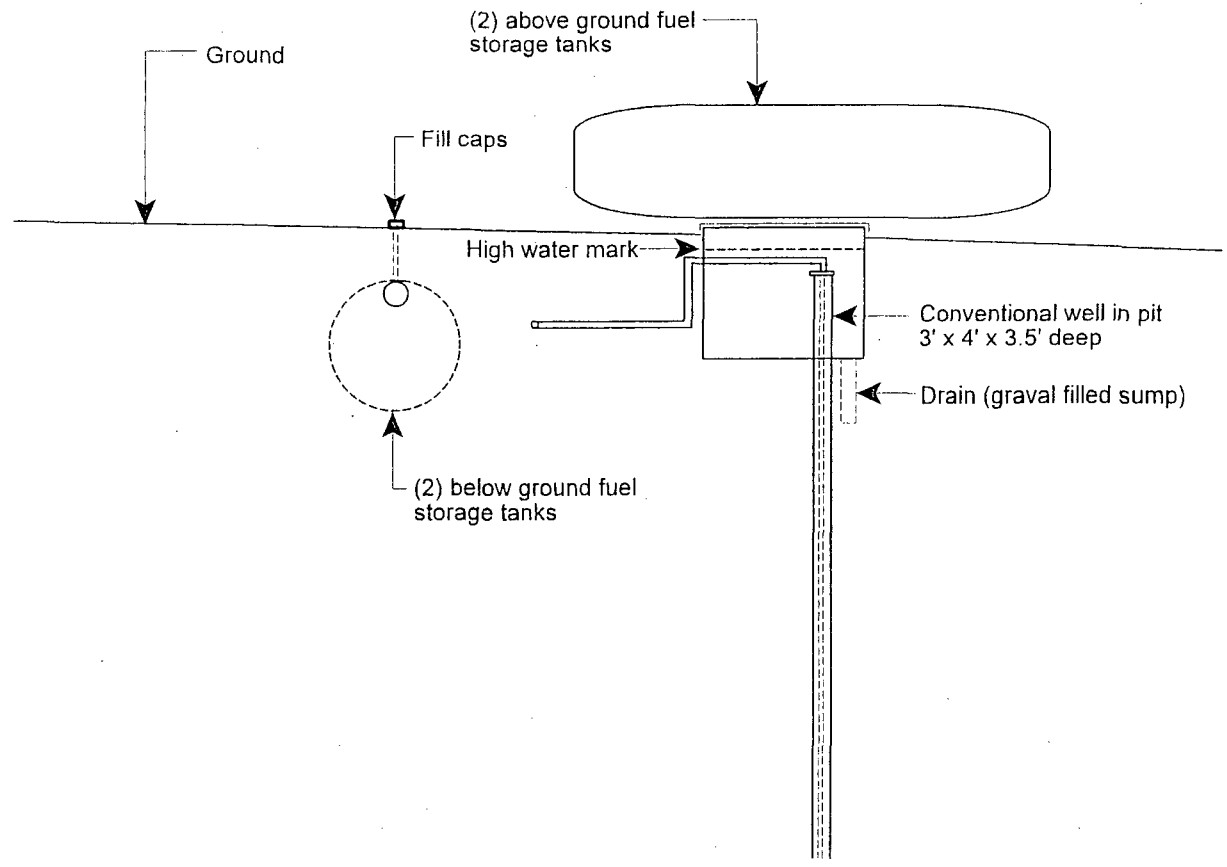
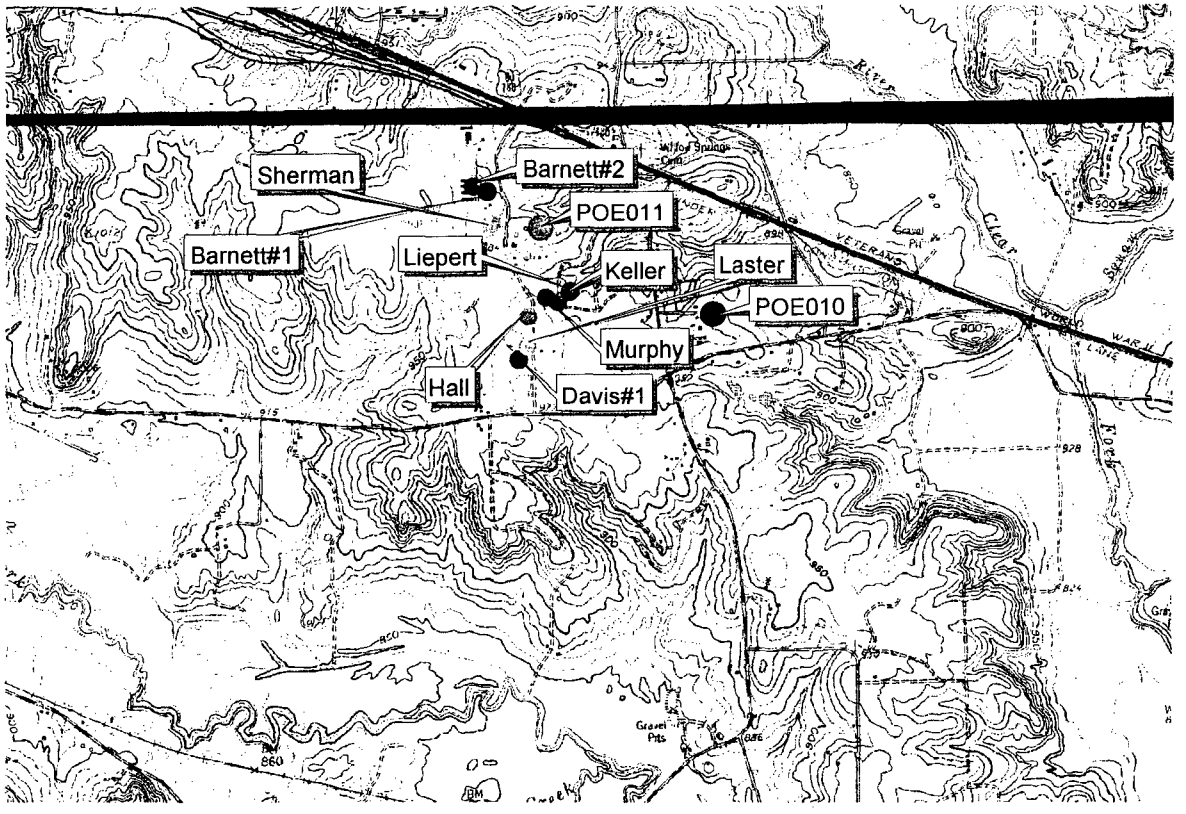


Figure 4 Side Look of the Position of Well, Above and Underground Tanks on the Parker County Airport



1 0 1 2 Miles

Willow Park Municipal System
516 Ranch House Road
Willow Park, TX 76087

Parker County

N

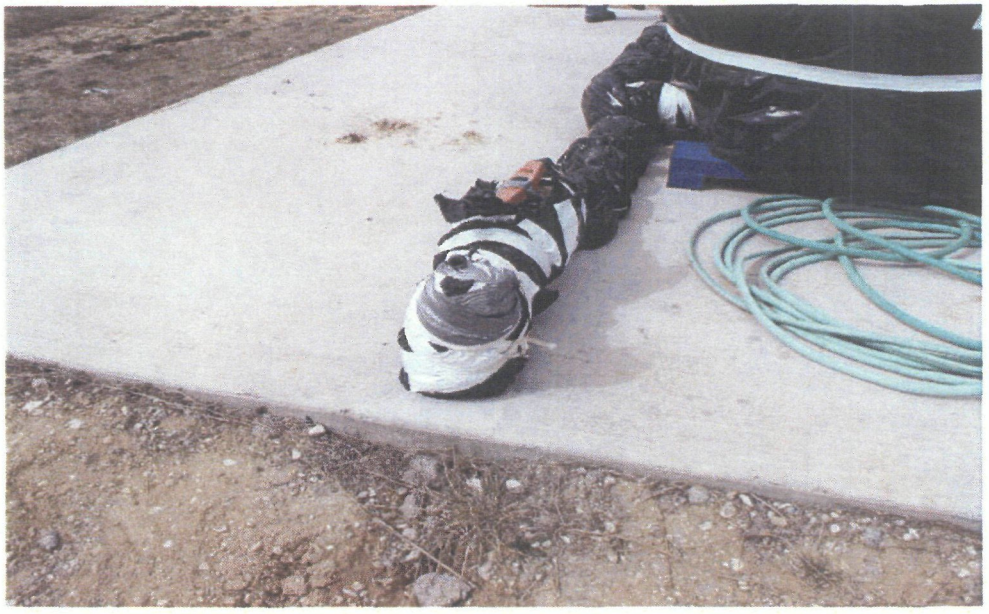
Source
The base data set used is the Anneta and Lake Weatherford Texas, 1:24,000 Digital Raster Graphic(DRG), which is a scanned image of a U. S. Geological Survey topographic map.
UTM NAD 27 Zone 14

Figure 5
Private Wells Sampled Around POE011

8.0 SITE PHOTOGRAPHS

Picture 1 POE011(Willow Springs Oaks Pump Station) where has TCE detection
Facing north, picture was taken by Xiaohong Wang on March 6, 2007

Picture 2 Two filters installed on Willow Springs Oaks Pump Station
Facing east, picture was taken by Xiaohong Wang on March 6, 2007



Picture 3 The well outlet before the filter at Willow Springs Oaks Pump Station
Facing west, picture was taken by Xiaohong Wang on March 6, 2007

Picture 4 The well outlet after the filter at Willow Springs Oaks Pump Station
Facing west, picture was taken by Xiaohong Wang on March 6, 2007

Picture 5 Two aboveground tanks at Willow Springs Oaks Pump Station
Facing north, picture was taken by Xiaohong Wang on March 6, 2007

Picture 6 The west side of the Willow Spring Oaks Pump Station
Facing west, picture was taken by Xiaohong Wang on March 6, 2007

Picture 7 East side of the Willow Springs Oaks Pump Station
Facing the east, picture was taken by Xiaohong Wang on March 6, 2007

Picture 8 Front of the Willow Springs Oaks Pump Station
Facing north, picture was taken by Xiaohong Wang on March 6, 2007

Picture 9 The back of the Willow Springs Oaks Pump Station
Facing north, picture was taken by Xiaohong Wang on March 6, 2007

Picture 10 Parker County Airport Well#1
Facing northeast, picture was taken by Xiaohong Wang on March 6, 2007

Picture 11 Parker County Airport well# 2 after cover was removed
Facing the north, picture was taken by Xiaohong Wang on March 6, 2007

Picture 12 Parker County Airport Well#2 with cover
Facing the north, picture was taken by Xiaohong Wang on March 6, 2007

Picture 13 Parker County Airport aboveground storage tank located next to the well#2
Facing northwest, picture was taken by Xiaohong Wang on March 6, 2007

Picture 14 Two outlets on the ground for underground tanks at Parker County Airport
Facing north, picture was taken by Xiaohong Wang on March 6, 2007

Picture 15 North well located at POE 010 of Willow Springs Pump Station
Facing northwest, picture was taken by Xiaohong Wang on March 6, 2007

Picture 16 South well located at POE 010 of Willow Springs Pump Station
Facing southwest, picture was taken by Xiaohong Wang on March 6, 2007

Picture 17 Aboveground tank located at Willow Springs Pump Station
Facing the west, picture was taken by Xiaohong Wang on March 6, 2007

Picture 18 Well 11 for POE 008
Facing north, picture was taken by Xiaohong Wang on March 6, 2007

9.0 FIELD NOTES

03/06/07

willow park municipal water system.

10:00 am arriving willow park municipal water system

Joe Hines = public works director of city of willow park

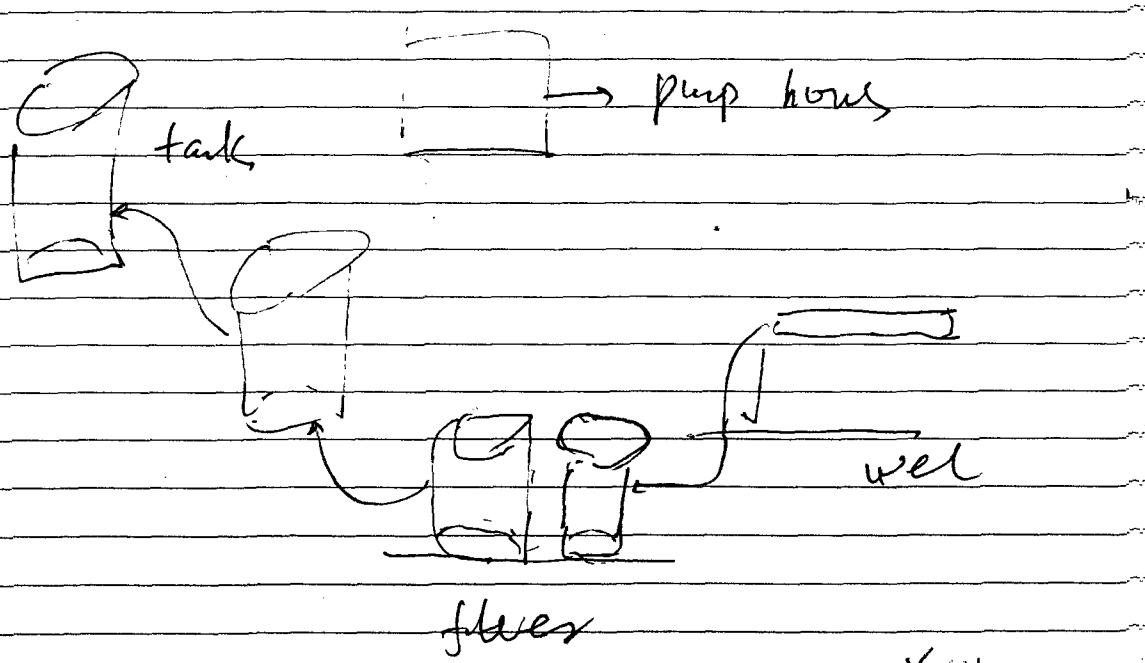
Dan Long : TCEQ Region 4 field investigator

XIAOHONG WANG : TCEQ Remediation project manger of state lead section

116 circle is a nearby tank of pozoll

pozoll is fenced and locked; located at residetic area.

pozoll site sketch



X.W.

picture 1. POE oil, facing north
picture 2. Two filters installed on willow springs oaks pump station, facing east

picture 3. The well outlet before the filter at willow springs oaks pump station, facing west
picture 4. The well outlet after the filter at willow springs oaks pump station, facing west
picture 5. Two above ground tanks at WSOPS facing north
picture 6. The west side of the WSOPS facing west
picture 7. East side of the willow springs oak pump station, facing east
picture 8. Front of the willow springs Oaks pump station facing north
picture 9. The back of the WSOPS, facing north
picture 10. parker County Airport well #1 facing north west
picture 11. parker County Airport well #2, facing north
picture 12. parker County Airport well #2 facing north
picture 13. parker County Airport above ground storage tank located next to the well #2 facing north west
picture 14. Two outlets on the ground for underground tanks at parker County Airport facing north
picture 15. north well located at POE 010 facing northwest
picture 16. South well located at poe 010 facing south west
picture 17. Above ground tank located at willow springs pump station facing west
picture 18. well 11 for POE 005, facing north

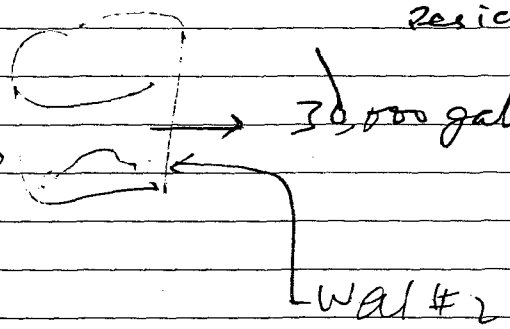
X.W.

ivers Travel mart →

kerCounty airport →

wells were inspected for the parker County airport
: well #1 → by the tank
well #2 → by the shop
both wells are not used as drinking water
. POE o/o

pump station: fenced and locked, located at residential area



f = single well. off the line most of the time
fenced and locked, located at residential
area. there is no above ground storage
tank.

X.W.

PRE-CERCLIS SITE RECONNAISSANCE CHECKLIST

I. General
1. Name and title of site contact. Joe Hines
2. Telephone number. 817-441-2888
3. Site address.
4. Mailing address (if different). 516 Ranch House Road, willow park.
5. Name of owner and/or operator. Tx, 76087
6. Mailing address. ↳ Joe Hines.

II. Site History (File Review)
1. How long has current owner/operator been at site? long time
2. What were previous uses of site? Who were previous owners?
3. Size of site (acres). 2 acres
4. Is any other property used that is not contiguous with site? residential area.
5. Permits (RCRA, TDH, etc.) none. truck park area
6. Any past spills or other environmental or accident problems. uphill septic system
7. What were previous waste management practices?

III. Current Operations
1. What is currently being done at facility? is going to have elevated tank.
2. What are waste management practices? none
3. What are hazardous chemical management practices? none.
4. List major hazardous chemicals/constituents present and past.
5. Discuss sources (e.g., tanks, impoundments, containers, etc.).
6. Number of employees - current, peak. 11 people.

IV. Source Characteristics
1. Identify type of wastes and quantities disposed of at site. none
   a. Identify source of information.
   b. Photograph. ✓
   c. Dimension (quantity, volume, area) of waste locations.
   d. Containment controls (clay cap, clay liner, vegetative cover, etc.)
   e. Existing data.
   f. Condition/integrity of storage/disposal units.

septic pit is also 100 yard away from poll
truck park area is 100 yard away from poll

V. Groundwater Pathway
1. Distance from source to nearest well (Private and Public). Identify name and address of well owner, if possible and estimate well usage (number of people served, irrigation, supplemental, etc.).

2. Aquifer nearest wells are screened in.

~~plexy~~ plauxy aquifer

VI. Surface Water Pathway clear fork of Trinity River
1. Identify the TNRCC Basin and Stream Segment where the site is located.
2. Are there surface water bodies within 2 miles of site? Yes
3. identify if there are any drinking water intakes along surface water route

within 15 stream-miles downstream. none

4. Identify fisheries along the 15 stream-mile downstream pathway. none
5. Identify sensitive environments along the 15 stream-mile downstream pathway. none

VII. Soil Exposure Pathway

1. Describe status of site access, fencing, gates, locks, condition of security controls. fenced and locked
2. Describe adjacent land use. residential
3. Describe off-site runoff patterns. from northwest to southeast
4. Describe number of people with residence, school, or day care on-site or within 200 yds. none
5. Locate nearest school or day care. aledo high school
6. Number of workers on-site (include maximum number to cover work on-site). one or two
7. Evidence of recent human activity at the site. none

VIII. Air Pathway

1. Shortest distance from source to occupied building.
2. Identify known releases to air.
3. Identify reports of adverse health effects.

Site Sketches to Include

1. Date(s) of visit.
2. Well locations (within 1/4 mile).
3. Storage areas (past and present).
4. UST and above ground storage tanks.
5. Waste Areas.
6. Buildings
7. Access roads.
8. Areas of ponded water, or depressions in surface.
9. Drainage direction.
10. Photograph locations and directions.
11. Vegetation and significant landscaped features.
12. Any irregular appearance for soil, vegetation, tanks, etc. such as may result from spill, backfill operation, recent dirt moving work, etc.

PRE-CERCLIS SITE RECONNAISSANCE CHECKLIST

I. General
1. Name and title of site contact. Joe Hines
2. Telephone number. 817-441-2858
3. Site address.
4. Mailing address (if different). 516 Ranch House Road, willow park.
5. Name of owner and/or operator. Tx, 76087
6. Mailing address. ↳ Joe Hines.

II. Site History (File Review)
1. How long has current owner/operator been at site? long time
2. What were previous uses of site? Who were previous owners?
3. Size of site (acres). 2 acres
4. Is any other property used that is not contiguous with site? residential area.
5. Permits (RCRA, TDH, etc.) none. truck park area
6. Any past spills or other environmental or accident problems. up hill septic system
7. What were previous waste management practices?

III. Current Operations
1. What is currently being done at facility? is going to have elevated tank.
2. What are waste management practices? none
3. What are hazardous chemical management practices? none.
4. List major hazardous chemicals/constituents present and past.
5. Discuss sources (e.g., tanks, impoundments, containers, etc.).
6. Number of employees - current, peak. 11 people.

IV. Source Characteristics
1. Identify type of wastes and quantities disposed of at site. none
   a. Identify source of information.
   b. Photograph. ✓
   c. Dimension (quantity, volume, area) of waste locations.
   d. Containment controls (clay cap, clay liner, vegetative cover, etc.)
   e. Existing data.
   f. Condition/integrity of storage/disposal units.

septic pit is also 500 yard away from poll
truck park area is 500 yard away from poll

V. Groundwater Pathway
1. Distance from source to nearest well (Private and Public). Identify name and address of well owner, if possible and estimate well usage (number of people served, irrigation, supplemental, etc.).

2. Aquifer nearest wells are screened in.

~~plaxy~~ plaxy aquifer

VI. Surface Water Pathway clear fork of Trinity River
1. Identify the TNRCC Basin and Stream Segment where the site is located.
2. Are there surface water bodies within 2 miles of site? Yes
3. identify if there are any drinking water intakes along surface water route

within 15 stream-miles downstream. none

4. Identify fisheries along the 15 stream-mile downstream pathway. none
5. Identify sensitive environments along the 15 stream-mile downstream pathway. none

VII. Soil Exposure Pathway

1. Describe status of site access, fencing, gates, locks, condition of security controls. fenced and locked
2. Describe adjacent land use. residential
3. Describe off-site runoff patterns. from north, west to south east
4. Describe number of people with residence, school, or day care on-site or within 200 yds. none
5. Locate nearest school or day care. aledo high school
6. Number of workers on-site (include maximum number to cover work on-site). one or two
7. Evidence of recent human activity at the site. none

VIII. Air Pathway

1. Shortest distance from source to occupied building.
2. Identify known releases to air.
3. Identify reports of adverse health effects.

Site Sketches to Include

1. Date(s) of visit.
2. Well locations (within 1/4 mile).
3. Storage areas (past and present).
4. UST and above ground storage tanks.
5. Waste Areas.
6. Buildings
7. Access roads.
8. Areas of ponded water, or depressions in surface.
9. Drainage direction.
10. Photograph locations and directions.
11. Vegetation and significant landscaped features.
12. Any irregular appearance for soil, vegetation, tanks, etc. such as may result from spill, backfill operation, recent dirt moving work, etc.

Pre-CERCLIS Screening Site Reconnaissance

Health and Safety Plan

for

Willow Park Municipal System
PWS ID # 1840027
101 Stage Coach Trail
Dallas, Texas 76087

February 27, 2007

HEALTH AND SAFETY PLAN
FOR
PRE-CERCLIS SCREENING
SITE RECONNAISSANCE

Willow Park Municipal System

Prepared by

Texas Commission on Environmental Quality
Superfund Site Discovery and Assessment Team
Austin, Texas

Reviewed and approved by

Site Safety Officer:	_____ Name	_____ Date
Site Investigation: Manager	Marshall Critchlow Name for Zachary Wang	3/5/07 Date
PA/SI Program Representative:	Marshall Critchlow Name	3/5/07 Date
TCEQ Central Office Health & Safety Representative:	_____ Name	3/5/07 Date

Table of Contents

Figures

Attachments

EMERGENCY CONTACTS

In the event of any situation or unplanned occurrence requiring assistance, the appropriate contact(s) should be made from the list below. For emergency situations contact the appropriate response teams.

Contingency Contacts	Phone Number
Fire Department	911
Police	911
Sheriff's Department	911
Medical Emergency	
Hospital Name	Willow Park Medical Associates
Hospital Phone No.	8174419252
Hospital Address	132 EL Chico Trail Willow Park TX 76087

Map to Hospital (see next page)

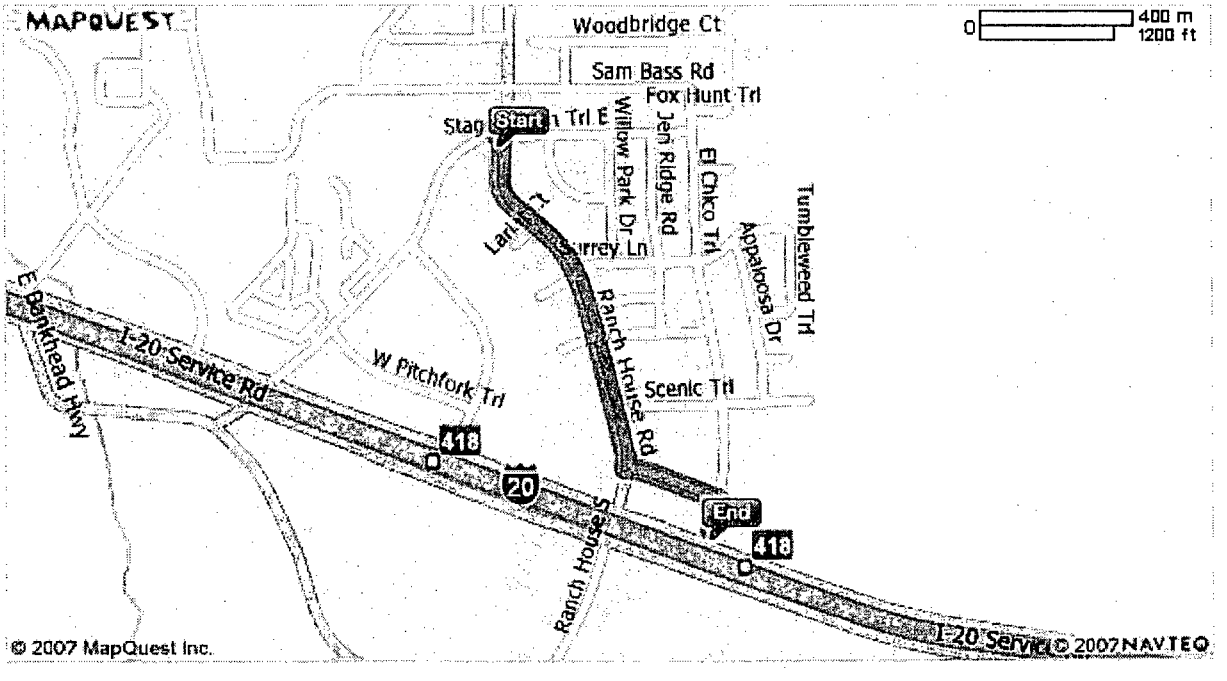
TCEQ Contacts	
TCEQ PA/SI grant Manager:	Marshall Cedilote Austin, Texas (512) 239-4134
TCEQ Central Office Health and Safety Representative:	Omar Valdez Austin, Texas (512) 239-6858
TCEQ Site Investigation Manager:	Xiaohong Wang DFW Region 4 817-588-5914

Enter Hospital Location Figure

Start: **101 W Stage Coach Trl**
Willow Park, TX 76087-8259, US

End: **132 El Chico Trl**
Willow Park, TX 76087-8865, US

Directions		Distance
Total Est. Time: 3 minutes	**Total Est. Distance:** 0.99 miles	
START	**1:** Start out going NORTHEAST on W STAGE COACH TRL toward RANCH HOUSE RD.	<0.1 miles
	2: Turn RIGHT onto RANCH HOUSE RD.	0.7 miles
	3: Turn LEFT onto CANYON CT.	0.2 miles
	4: Turn RIGHT onto EL CHICO TRL.	<0.1 miles
END	**5:** End at **132 El Chico Trl** Willow Park, TX 76087-8865, US	
Total Est. Time: 3 minutes	**Total Est. Distance:** 0.99 miles	



1.0 Introduction

The Provisions of this Health and Safety Plan (HASP) apply to the Pre-CERCLIS Screening site reconnaissance to be perfomred at the Willow Park Municipal System site located at 101 Stage Coach Trail, Weatherford, Texas 76087. Based on the file review for the site, dichloromethane and trichloroethene (TCE) have been detected in the System. The TCE concentration in the water sample collected on March 23, 2006 exceeded its Maximum Contaminant Level (MCL) of 5 ppb. The TCE concentration in the water sample collected from Willow Springs Oaks Pump Station on May 4, 2006 was 33.9 ppb. The impacted well had been removed from service according to the Willow Park Public Water Supply System. Activities to be performed for the site inspection include a reconnaissance in the vicinity of the drinking water well, locating potential contamination source(s) within one mile from the site, locating private wells within 1/4 mile from the site, investigating the surface water pathway within two miles from the site, interviewing the property owner, and obtaining photographic documentation. This plan has been prepared by the Site Investigator.

This HASP describes the procedures to be followed and the protective equipment to be used by all Superfund Site Discovery and Assessment Team (SSDAT) personnel on this project. The health and safety requirements presented herein are based on information available at this time and are subject to revision upon subsequent discoveries regarding potential hazards at the site. As this plan is intended to minimize the risk for exposure to field personnel, all SSDAT personnel will be required to abide by its provisions.

2.0 Personnel and Responsibilities

The site inspection team is comprised of two (2) persons for every site visit. The Site Investigator is designated as the Site Health and Safety Officer who will be responsible to see that the inspection is performed in a manner consistent with the Health and Safety Plan. The Site Health and Safety Officer will be responsible for Health and Safety briefings before each daily on-site inspection. The Site Health and Safety Officer may temporarily suspend field activities, if the health and safety of personnel are endangered. The Site Health and Safety Officer may temporarily suspend an individual from the field activities for infractions of the HASP.

3.0 Site Description and History

The City of Willow Park is located in Parker County, Texas. Based on the information provided in the TCEQ Public Water Supply database, the system currently serves approximately 3,114 customers through 1115 connections. There are four pump stations and eleven points of entry in the system. The four pump stations in the system are Pump Station 1 (Indian Camp), Pump Station 2 (Willow Wood), Willow Springs Oaks Pump Station, and Willow Springs Pump Station.

Based on the information available, dichloromethane was detected at Point of Entry (POE) #008 on May 30, 1996. Trichloroethene(TCE) was detected at POE #010 on October 29, 2001. TCE had been detected at POE #011 from March 19, 2002 to March 23, 2006. The concentration of TCE at POE

#011 increased over time. The TCE concentration in the water sample collected on March 23, 2006 exceeded its MCL of 5 ppb. The TCE concentration in the water sample collected from Willow Springs Oaks Pump Station on May 4, 2006 was 33.9 ppb. The impacted well had been removed from service according to the Willow Park Public Water Supply System. No waste source areas have been identified as yet.

Because of the relatively high TCE concentration detected at POE #011 in the Willow Park Municipal Water System, nine private water wells located within 1/4 mile from the impacted well were surveyed and sampled on June 2, 2006 and several wells were found to be contaminated with TCE and methylene chloride. Based on the information available, the well is plumbed to a commercial/industrial building and water from this well is not used for drinking or cooking. The well owner is the Parker County Airport.

3.1 Site Reconnaissance Tasks

The PA Reconnaissance Checklist shall be followed. Upon arrival at the site, the inspection team will conduct a site safety briefing in which the contents of this health and safety plan will be discussed. An initial survey of the site will then be conducted to ensure adequate safety precautions are in place during site activities (see Attachment B for Health and Safety Checklist).

3.2 Site Description

The PWS# 1840027 is a municipal water supply system for the City of Willow Park. The system currently serves approximately 3114 customers through 1115 connection . Water is currently supplied by four pump stations and eleven points of entry. The site is located at 101 Stage Coach Trail, Weatherford, Parker County, Texas.

3.3 History of Documented Contamination and Hazards at the Site

Based on the information available, there is no documented evidence of hazardous materials being generated, stored, processed, disposed or transported from the site.

4.0 Hazards

4.1 Chemical Hazards

Potential chemical hazards may exist as a result of the chlorine chemical treatment process from the water treatment operations and materials stored within the chlorine house units.

4.2 Physical Hazards

Based on the information available, the site is located at residential area. If we feel in danger during the site inspection, field activities will cease, and all personnel will leave the site.

Personnel performing inspections may be required to wear protective equipment at various levels. Personnel should be aware that protective equipment limits dexterity and visibility, and places a physical strain on the wearer. Heat and cold stress injuries are always a possibility in hazardous waste work. Refer to Attachment A for Heat and Cold Stress information.

5.0 Health and Safety Directives

5.1 General Health and Safety Requirements

Only persons who have had the 40-hour Health and Safety training for Hazardous Waste Site Workers according to OSHA's standards will be permitted on the site.

No eating, drinking, smoking, or any other activity involving hand-to-mouth contact will be allowed within the exclusion zone.

Facial hair will not be allowed where respirators contact the face. Contact lenses may not be worn while conducting sampling.

5.2 Personnel Protective Equipment

The following minimum personnel protective equipment will be worn during on-site inspection except where up-grades are required:

Level "D" Protection: tyvek coveralls, neoprene, PVC, or leather work boots (steel toe), optional inner vinyl or latex surgical gloves, optional outer neoprene work glove, optional goggles or face mask, and hard hat.

If an upgrade is required, the following will be worn:

Level "C" Protection: tyvek coveralls, neoprene or PVC work boots (steel toe), inner vinyl or latex surgical gloves, outer neoprene work glove, full-face respirator with organic and particulate filters, and hard hat. Coveralls will be taped at wrists and ankles. Respirator cartridges to be used will bear NIOSH/MSHA approvals. Respirator cartridges will be changed once daily or when recommended exposure is reached to minimize the potential for break-through. If break-through occurs, cartridges must be changed.

For all levels, personnel will discard and render unusable protective clothing such as tyvek and gloves. Boots and any other non-disposable gear will be decontaminated before leaving the site.

5.3 Decontamination

Decontamination will be performed to limit the migration of contaminants off-site and between work areas on the site. Personnel decontamination will consist primarily of washing outer garments with

the appropriate decontamination solution followed by removal of the outer gear. Coveralls should be removed by turning the clothing inside out. Outer protective equipment will be rendered unusable, double bagged, and disposed in any municipal landfill. Personnel will, as soon as possible, wash their hands and face thoroughly. A decontamination area will be designated by the Site Investigator.

5.4 Documentation

Implementation of the provisions of this HASP will be recorded in the field log book. Information to be recorded shall include: weather conditions, personnel on-site, levels of protection worn, monitoring instrument readings, subjects discussed during site health and safety briefings, and safety violations.

6.0 Air Monitoring

No hazardous substances have been identified around the site based on the file review and water sample analytical results. No potential hazards related to organic vapor emissions have been identified and therefore, no air monitoring will be conducted.

However, should organic vapor emission be detected, the site investigation manager will determine whether evacuation is necessary. Any observations concerning potential emissions will be recorded in the field log book.

7.0 Emergency Response Procedures

In the event that an emergency situation arises, such as injury, illness or fire, the appropriate immediate response must be taken by the first person to recognize the situation. If the site is evacuated, all TCEQ personnel shall travel to the designated rally point. This designated rally point will be identified by the Site Safety Officer before conducting site reconnaissance.

First-aid equipment will be available on-site and personnel will keep them close at hand.

Emergency contacts and a route to the hospital will be ascertained by the Site Health and Safety Officer before personnel go on-site.

8.0 EPA Notification of Imminent Danger to the General Public

If there is an imminent danger that the general public may come into direct contact with hazardous substances or wastes which are readily accessible on-site, the Site Investigator will notify the Project Manager who will notify the EPA no later than one (1) day after the inspection team returns from the site visit. Written notification will follow any verbal communication in this regard.

Attachment A
Heat and Cold Stress

Attachment B
Health and Safety Checklist

7

Health and Safety Checklist

__ 1. Safety briefing

__ 2. Initial site survey

__ 3. PPE: Tyvek coveralls, boots, inner and outer gloves, respirator, organic and particulate filter canisters, hard hat, goggles and tape

__ 4. Field Inspection equipment: watch. field notebook, site map, pencils and pens, PA reconnaissance checklist, camera, steel measuring tape, telephone

__ 5. First aid and snakebite kits

__ 6. Water

__ 7. Emergency contact list and map to hospital

__ 8. Weather gear: rain gear, cold weather gear, etc.